NJDEP DIVISION OF WATERSHED MANAGEMENT

effluent limits.

fact sheet



Expedited Fecal Coliform TMDLs

In September of 2002, the NJDEP signed a Memorandum of Agreement with the USEPA in

which New Jersey committed to produce 120 coliform TMDLs for waterbodies that were listed as pathogen impaired segments. These TMDLs were to be established in an expedited fashion with some		
being adopted in March 2003 and the rest in June 2003.		
The pollutant of concern for these TMDLs is pathogens, the presence of which is indicated by elevated concentrations of fecal coliform bacteria. Nonpoint sources are the primary contributors of		
fecal coliform loads in the listed streams. Storm events transport fecal coliform from sources such as geese, farms, and domestic pets to the receiving water. Nonpoint sources may also include steady-state inputs from sources such as failing sewage conveyance systems and failing or inappropriately		
located septic systems. Because the total point source contribution from facilities such as Publicly-		
Owned Treatment Works (POTWs) is an insignificant fraction of the total load, the fecal coliform TMDLs will not impose any change in current practices for POTWs and will not result in changes to existing		

TMDL Calculations

	Using ambient water quality monitoring data from water years 1994-2002, summer and all
sea	son geometric means were determined for each impaired segment. Because there are two surface
wat	er quality criteria for FW2 streams, computations were necessary for both criteria and resulted in
two	values for percent reduction for each stream segment. The higher (more stringent) percent
red	uction value was selected as the TMDL. The TMDL identifies the required percent reduction
nec	essary for each stream segment or group of segments to meet the fecal coliform Surface Water
Qua	lity Standards (SWQS). These load allocations act as targets around which a management strategy
can	be developed.

Implementation

Management strategies are designed to eliminate or reduce various fecal coliform sources
Each management strategy has one or more entities that can take lead responsibility for
implementation of the recommendations. Various funding sources are available to assist in
accomplishing the management strategies. The Department will address the sources of impairme
through systematic source trackdown, matching strategies with sources, selecting responsible
entities and aligning available resources to effect implementation. The implementation phase is a
coordinated effort between the NJDEP, the municipal and county government, and the watershed
community.

Source Assessment

Load duration curves were used to help differentiate between a steady and episodic source loading. River Assessments and visual surveys were performed by the New Jersey Watershed Ambassadors for every impaired stream segment. This data was used in conjunction with source information gathered from the local partners and combined with evaluation of aerial photography to determine potential sources of fecal coliform.

Trackdown Monitoring

Each segment was also evaluated to determine if additional monitoring was necessary to inform management strategy development. The two main types of monitoring that are suggested in the document were fecal coliform sampling and bacterial source trackdown. Fecal coliform sampling is recommended to confirm an impairment or in cases where the impaired streamshed is large, making it necessary to geographically isolate the source. Bacterial source trackdown is recommended in stream segments where it was important to differentiate between human and animal sources or to isolate specific species in order to concentrate efforts on eliminating the most significant sources.

What You Can Do

CITIZEN

- Clean up after your pets
- Avoid feeding waterfowl
- Maintain your septic system

MUNICIPAL

- Adopt and enforce Pet Waste and wildlife feeding Ordinances
- Implement measures for Stormwater Regulations now = Be Proactive

AGRICULTURAL AND RELATED

- Develop and implement Conservation Management Plans with technical and financial assistance available through:
 - Environmental Quality Incentive Program (EQIP)
 - ☐ Conservation Reserve Program (CRP)
 - Soil & Water Conservation Cost-Sharing Program
 - State Conservation Cost Share Program (SCCSP)